PATENT ATTORNEY DOCKET NO. 46884-5504

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Yoshihisa WARASHINA et al.) Confirmation No.: 2686
Application No.: 10/589,605) Group Art Unit: To Be Assigned
Filed: August 16, 2006) Examiner: To Be Assigned
For: OPTICAL TRANSMITTING/RECEIVING MODULE	; ;

Commissioner for Patents
U.S. Patent and Trademark Office
Customer Window
Alexandria, VA 22314

Sir:

SUBMISSION OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Applicants bring to the attention of the Examiner the attached document.

Attached is an English-language translation of an International Preliminary Examination Report ("IPER"), including PCT/IB/373 and English translation of PCT/ISA/237, dated September 28, 2006 that issued in a related PCT/JP2005/002248 application. Applicants respectfully request that the Examiner consider the IPER as it relates to the above-identified application.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed document is material or constitute "prior art."

If it should be determined that the listed document does not constitute "prior art" under United

ATTORNEY DOCKET NO.: 46884-5504

Application No.: 10/589,605

Page 2

States law, Applicants reserve the right to present to the office the relevant facts and law

regarding the appropriate status of such document.

Applicants further reserve the right to take appropriate action to establish the patentability

of the disclosed invention over the listed documents, should one or more of the documents be

applied against the claims of the present application.

EXCEPT for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby

authorized by this paper to charge any additional fees during the entire pendency of this

application including fees due under 37 C.F.R. § 1.16 and 1.17 which may be required, including

any required extension of time fees, or credit any overpayment to Deposit Account No. 50-0573.

This paragraph is intended to be a CONSTRUCTIVE PETITION FOR EXTENSION OF

TIME in accordance with 37 C.F.R. § 1.136(a)(3).

Respectfully submitted,

DRINKER, BIDDLE & REATH LLP

Dated: January 4, 2007

By:

John G. Smith

Registration No. 33,818

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From the INTERNATIONAL BUREAU

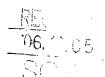
PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

To:

HASEGAWA, Yoshiki SOEI PATENT AND LAW FIRM Ginza First Bldg. 10-6, Ginza 1-chome Chuo-ku, Tokyo 1040061 JAPON



Date of mailing (day/month/year) 28 September 2006 (28.09.2006)	
Applicant's or agent's file reference FP05-0017-00	IMPORTANT NOTIFICATION
International application No. PCT/JP2005/002248	International filing date (day/month/year) 15 February 2005 (15.02.2005)
Applicant HAMAN	MATSU PHOTONICS K.K. et al

l.	Transmittal	of the	translation	to	the applicant.	
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V	The International Bureau transmits herewith a copy of the English translation of the international preliminary report or patentability (Chapter I).
	patentiality (Chapter 1).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FP05-0017-00	FOR FURTHER ACTION	See item 4 below
International application No. PCT/JP2005/002248	International filing date (day/month/year) 15 February 2005 (15.02.2005)	Priority date (day/month/year) 17 February 2004 (17.02.2004)
International Patent Classification (8th See relevant information in Form F	h edition unless older edition indicated) PCT/ISA/237	
Applicant HAMAMATSU PHOTONICS K.K.		

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1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	This report contains indications	relating to the following item:	s:		
	Box No. I	Basis of the report			
	Box No. II	Priority			
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention			
	Box No. V	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	I Certain documents cited			
	Box No. VII Certain defects in the international application				
1	Box No. VIII Certain observations on the international application				
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
			Date of issuance of this report 19 September 2006 (19.09.2006)		
	The International Bures	ombettes	Authorized officer Yoshiko Kuwahara		
1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70			e-mail: pt07@wipo.int		

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION FP05-0017-00 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2005/002248 15.02.2005 17.02.2004 International Patent Classification (IPC) or both national classification and IPC Applicant HAMAMATSU PHOTONICS K.K. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer Facsimile No. Telephone No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/002248

Box	k No. I	Basis of this opinion
I.	With	regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.	With	n regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Add	itional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/002248

DOX			porting such statement	
1.	Statement			
	Novelty (N)	Claims	5-8	YES
		Claims	1-4, 9, 10	NO
	Inventive step (IS)	Claims		YES
		Claims	1-10	NO
	Industrial applicability (IA)	Claims	1-10	YES
		Claims		NO

- 2. Citations and explanations:
 - Document 1: JP 11-218651 A (Sumitomo Electric Industries, Ltd.), 10 August 1999, Par. Nos. 0037-0040, 0051-0057, Figs. 9-15
 - Document 2: EP 844503 A1 (Matsushita Electric Industrial Co., Ltd.), 27 May 1988, page 23, line 5 to page 24, line 16, Figures 9A, 9B & JP 2001-264594 A, Par. Nos. 0175-0182, Figs. 9A, 9B & JP 2001-66473 A & JP 2001-188147 A & US 6406196 B1 & WO 6458 A & CN 1191023 A & CN 1414408 A
 - Document 3: JP 10-197762 A (Matsushita Electric Industrial Co., Ltd.), 31 July 1998, Par. Nos. 0038-0039, Fig. 5

The inventions of claims 1-4, 9, 10 are described in Par. No. 0037-0040, 0051-0057 of document 1 cited in the ISR and do not appear to possess novelty or involve an inventive step.

The invention of claim 5 does not appear to involve an inventive step based on document 1 and document 2 cited in the ISR. Obtaining an array by arranging a plurality of sets of a photodiode, a laser diode, and a dielectric film filter is described in page 23, line 5 to page 24, line 16 and Figs. 9A, 9B of document 2.

Therefore, achieving the invention of claim 5 by applying the feature of obtaining the array of the invention described in document 2 in the document described in document 1 could have easily been conceived of by a person skilled in the art.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/002248

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: V.2

The inventions of claims 6-8 do not appear to involve an inventive step based on document 1 and document 3 cited in the ISR.

Forming a direct-contact lens on a substrate is descried in Par. No. 0038-0039 and Fig. 5 of document 3. Furthermore, increasing the coupling efficiency by coupling optical element via a lens is not described in document 1, but is a readily recognizable task by a person skilled in the art.

Therefore, applying a means for optically coupling element via a lens formed in direct contact of a substrate according to the invention described in document 3 as an optical coupling means for optical elements of the invention described in document 1 in order to obtain the inventions of claims 6-8 could have easily been conceived of by a person skilled in the art.

Furthermore, using ion beam etching for forming the lens on the substrate is merely a matter of design variation that is not by itself exceptional.